CHAMELEON
Colour Tinting & Mixing Systems

iMix
Gyroscopic Paint Mixer
Instruction Manual

UM013 Rev 5

SPECIFICATIONS:

Model No:	• iMix Gyroscopic Paint Mixer
Maximum Container and Contents Weight:	• 35 KG's
Maximum Container Dimensions - Height x Diameter (Major Axis):	• 42.5 cm x 38 cm
Rotational Speed:	• 100 – 220 RPM (3 speeds)
Power Supply:	• 230V +/- 15% • 115V +/- 15%
RPM	• 244RPM at 50Hz, 4.8 RPM per 1 Hz
Mixer Dimensions:	• 98.5 cm High • 73 cm Wide • 78 cm Deep • Weight: 170 kg

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CONTENTS PAGE

1. IMPORTANT NOTICE 3

2. SPECIAL FEATURES OF YOUR PAINT MIXER 4

3. INTRODUCTION 5

4. SAFETY FIRST 5

5. INSTALLATION AND POSITIONING 9

6. MACHINE CONTROLS 11

7. MAINTENANCE 17

8. WARRANTY CARD 19

10. INSTALLERS CHECKLIST 20

1. IMPORTANT NOTICE

DO NOT USE THIS MACHINE OR THIS RELY ON THIS USER GUIDE UNTIL YOU HAVE READ THE USER MANUAL AND THE MIXER INSTALLATION CHECK LIST HAS BEEN SIGNED

BEFORE OPERATING THIS MACHINE
IT IS NECESSARY TO READ THIS MANUAL CAREFULLY.
IF IN DOUBT, CONTACT CHAMELEON.

THIS MANUAL CONTAINS IMPORTANT
WARNINGS AND INSTRUCTIONS.

UNDERSTAND HOW TO OPERATE THE MACHINE AND APPLICATIONS AND KNOW ITS LIMITATIONS.

MIS-USE and / or FAILURE TO OPERATE THIS MACHINE IN ACCORDANCE WITH INSTRUCTION WILL VOID YOUR GUARANTEE.

KEEP THIS MANUAL IN A SAFE PLACE FOR FUTURE REFERENCE.

FOR TINS WITH WEIGHT EXCEEDING 7 KG IT IS DANGEROUS TO RUN A WORKING CYCLE AT HIGH SPEED.

2. SPECIAL FEATURES OF YOUR PAINT MIXER

Features	Value	Unit of Measure
Load Capacity	35	KG
Maximum Diameter of Tin	380	MM
Maximum Height of Tin	425	MM
Side of Square Tins	240	MM
Automatically Selected Rotational Speed With tin weight up to 7kgs With tin weight up to 30kgs With tin weight over 30kgs **Note: These are standard factory settings and may be adjusted if required**	 147 101 - 88 88 - 76	 RPM RPM RPM
Clamp pressure large Clamp pressure Small / Medium **Note: These are standard factory settings and may be adjusted if required**	2.0 / 204 1.7 / 173	KN / KG KN / KG
Power Supply Tension	230 +/- 15% 110 +/-15% - Optional	V V
No of Phase	2+gnd	
Frequency	47/63	Hz
Maximum Absorbed Power	1.0	KVA
Noise	<70	DB
Degree of Protection	IP54	

Inverter Type:	Pix (TP/10106100)
Hi- speed	7 – 17.5 CM, Inverter Hz: Reading 30Hz
Med-speed	17.5 – 28 CM, Inverter Hz: Reading 22-19Hz
Low speed	28 + CM, Inverter Hz: Reading 19-16Hz
S000	Parameter settings: 220Volts
S300	Parameter settings: Pre-set to 7 Seconds (NOTE: If an inverter setting is changed 7 seconds will default to 0.1)
S301	Parameter settings: Pre-set to 5 Seconds

(*) Advised speed adjustable on request

FOR TINS WITH WEIGHT EXCEEDING 7 KG IT IS DANGEROUS TO RUN A WORKING CYCLE AT HIGH SPEED

Optional Can Adaptor

All mixers can be supplied with an optional paint can adaptor which is used to centre the can and reduce the stress on the shaker.

3. INTRODUCTION

Your CHAMELEON Gyroscopic Paint Mixer is a quality-built machine that offers dependable performance throughout its lifetime.
To take full advantage of the mixer's capabilities, you should understand its features and proper operation. Before operating the mixer, read this manual completely and save it for future use.

BE SURE TO FOLLOW ALL SAFETY INSTRUCTIONS.

ATTENTION:

NEVER SHAKE GASOLINE BASED MATERIALS IN THIS MIXER. THIS MACHINE IS NOT EXPLOSION-PROOF. MISUSE CAN RESULT IN FIRE OR EXPLOSION.

4. SAFETY FIRST

NOTE:
ALWAYS FOLLOW THESE SAFETY PRECAUTIONS WHEN OPERATING.

- **KNOW THE MACHINE.**
  Read the owner's manual carefully. Learn the machine's applications and limitations.

- **PACKAGING MATERIAL.**
  Remove all packaging material before operating the machine.

- **THE MIXER IS NOT AN EXPLOSION-PROOF MACHINE.**
  Use extreme caution when working with solvent-based cleaning agents. Never smoke or expose solvent-based cleaning agents to open flames or sparks. Be sure the shaker is completely dry and well ventilated before restarting it. Any remaining solvent vapours can result in fire or explosion. Work in a well-ventilated area.

- **DISCONNECT THE ELECTRIC PLUG.**
  Unplug the mixer before cleaning maintenance work.

- **DO NOT USE EXTENSION CORDS.**

- **BE SURE TO USE THE PROPER POWER SOURCE.**

- **TURN THE MACHINE OFF WHEN NOT IN USE.**

- **AVOID DANGEROUS ENVIRONMENTS.**

Do not use the machine in a damp or wet environment. Keep the work area well lighted.

- **SECURE THE WORK.**

When mixing cans or pails, always hook the hold-down spring to the can handle. When mixing boxed cans or containers without handles, always secure the hold-down spring to the latch provided to prevent spring movement during mixing.

- **FASTEN ALL CONTAINER LIDS TIGHTLY.**

Be certain all lids are secure before placing the container in the machine. The pressure from the clamping jaw WILL NOT seal a lid in place.

- **KEEP THE WORK AREA CLEAN**.

Cluttered areas and benches invite accidents. To prevent accidents, be sure all electrical cords are out of the way.

- **PROTECT CUSTOMERS**.

All customers should be kept away from the work area. Only properly trained staff should operate the machine.

- **KEEP THE MACHINE CLEAN.**

Clean all surfaces with a mixture of lukewarm water and mild detergent.
DO NOT CLEAN WITH FLAMMABLE MATERIALS.

- **SERVICE PROPERLY.**

Follow the maintenance and service procedures outlined in this manual. If problems occur, contact CHAMELEON Colour Systems, Technical Service or your agent.

4.1 Meeting security requirements

The machine must only be used by trained personnel, who have carefully read the user manual, since dangers could arise and accidents could happen causing injury to persons and property otherwise. Improper use or action carried out on the equipment by non-trained personnel, and failure to respect the instructions concerning use and maintenance shall bring about the termination of the guarantee provided by the manufacturer.

The main areas of possible risk are:
- The working area
- The electrical installations

Access to these areas must not be given to any persons other than those trained in the use of the machinery and the maintenance engineers who are well aware of the consequences of improper use and unsuitable action taken on the machinery and relative sub-systems.
ACCESS TO THE ELECTRICAL INSTALLATIONS IS PERMITTED ONLY TO ENGINEERS SPECIALISED IN THE MACHINERY. THE LID MUST BE KEPT STRICTLY CLOSED DURING NORMAL OPERATION.

4.2 Components and arrangements concerning safety

The machine is equipped with the following safety arrangements:

- An Emergency Stop Button
- A sensor which detects the Door is open

4.3 Remaining risks table for the operator

Irrespective of the measures taken in the machine design with a view to guaranteeing a safe utilization of the plant, situations can arise which can reasonably be foreseen, for which only the reduction of the risk is possible but not complete elimination.

RISK	**EN392**	**PRECAUTION**
Injuries or crushing during Loading and unloading operations	1.6.4 4.1.1	Wear protective safety Gloves and shoes during Loading and unloading
Abrasions and injuries caused by Sharp edges or parts of containers	1.6.4 4.1.1	Wear protective safety gloves

4.4 Noise level produced by the machine

The level of continuous acoustic pressure, as measured during operation at full load is less than 50 dB.

4.5 Mobile and Radio Telephones

Mobile and Radio Telephones must not be used in the proximity of the machine. Disturbances cannot otherwise be excluded which could interfere with the correct functioning of the mixer.

4.6 Accessories

The installation of accessories on the machine and the addition of other modifications need the express approval of the manufacturers.
No modifications may be introduced which could interfere with the safety of the machine's operation.

4.7 List of the regulations referred to

1) **89/392** Directive of 14/06/1 993, subsequent integration DL n°.626 01 19/09/1994, directives attached
2) **EN 294** Plant safety - safety distances to prevent access to hazardous areas with greater skill
3) **EN 349** Plant safety - minimum spaces to prevent crushing
4) **EN 418** Plant safety -system for emergency stop
5) **EN 60204** Plant electrical equipment
6) **EN 1050** Plant safety-risk assessment
7) **EN 12100-1** Plant Safety-General Design Principles
8) **EN 12100-2** Plant Safety-General Design Principles

5. INSTALLATION AND POSITIONING

While the packaging consists of recyclable material for the main part, it is recommended that it be kept for any future movement.

In case of any evident signs of damage to the packing case and to the external parts of the mixer, it is recommended that the mixer should not be installed. The matter should be communicated both to the carrier, making use of the appropriate space in the dispatch documents, and to the retailer, who shall provide detailed instructions as to the procedure to be followed for possible repair or substitution.

5.1 Advance preparation for correct installation

In order to obtain the best operating results, the area where the equipment is to be installed must meet the following requirements:

- Clean location and free of dust
- Soft flooring, stable with anti-dust varnish or tiles, free of vibration, on which to place the mixer
- Adequate ventilation
- Equipped with electrical power sockets and earthed.

The mixer requires the following minimum necessary LOCAL CONDITIONS:

Electric Power: (Continuous required)	**1.2KVA**
Floor weight tolerance	**1000 Kg/m^2**
Temperature	**18°- 40° C**
Humidity	**20-65%**
Maximum noise level	**50 dB (A)**

Vibrations of a continuous mechanical or impulse nature are not tolerated.

5.2 Removing the crate

Position the packaged machinery in the vicinity of the installation site.
Remove the cover and the systems for fixing the crate then position the equipment on the floor in its appointed place. If need be, mount the wheels provided to facilitate movement over very short distances.
Remove all remaining packaging, blocking systems etc. present inside the gyroscopic rotating system.

5.3 Levelling

The mixer is equipped with four anti vibratory supports necessary for the levelling of the entire system. For levelling, apply a level with the following characteristics:

Accuracy: **0, 1 mm/m**
Foot: **300 mm**

The following procedure should be followed:
Position the level at the top of the apparatus, in a longitudinal direction.
Regulate the anti-vibratory feet to find the best level longitudinally.
Rotate the level transversal to the apparatus.
Regulate the anti-vibratory feet to find the best level transversally.
Repeat the previous steps alternately on the four anti-vibratory feet to obtain, in both directions a difference in level contained within the value of 0.2 mm/m. Once these conditions are reached, the apparatus can be considered as sufficiently level.

5.4 Normal machine use

The iMix system is a mixer for mixing non-gasoline based paints and varnishes, contained in metal or plastic tins of dimension and weight as indicated in the technical specifications.
The machine may be used only within the limits as indicated in the technical specifications and with the method as indicated in the instruction manual.

5.5 Improper use

The iMix system is an automatic mixer, which must not be used, among other cases, in the following situations, which present risks or dangers:

- With screens or protections removed
- With parts or components not fixed correctly
- With unsuitable equipment
- With tins of dimension or weight in excess of the machine's specifications
- With safety devices excluded (bypassed), modified or tampered with

5.5.1 Use not catered for

The iMix system for mixing paints and varnishes has not been designed to be used in line with other machines in order to constitute a complex single production unit. In particular, interlocking devices have not been allowed for, either in the normal controls or in the emergency stop.

6. Machine Controls

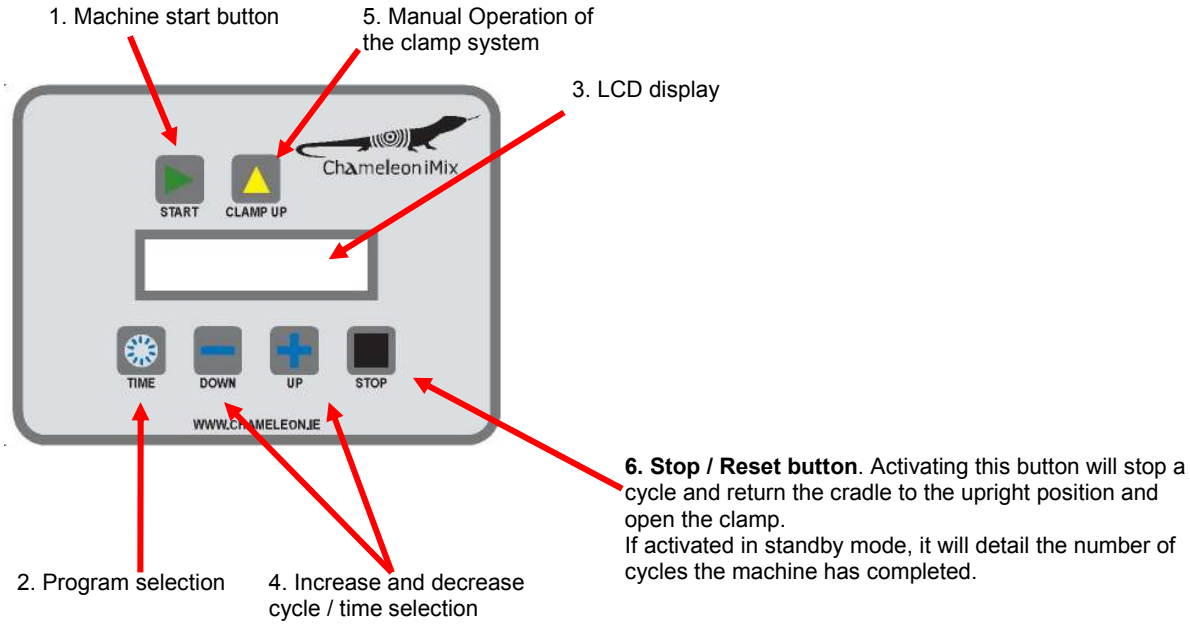
6.1 General issues

The machine is equipped with an electronic control system, contained partly in the control display and partly in the electrical power switchboard, which carries out the following tasks:

- Handling the control buttons and messages from and for the display panel
- Handling the system for clamping of tins
- Handling the work cycles of products for treatment
- Handling the gyroscopic system in speed and position

6.2 User interface

The operator interacts with the machinery by means of the control panel. On this are located all the commands and the displays for diagnostic messages relating to the functioning of the system.


1. Machine start button
5. Manual Operation of the clamp system
3. LCD display
ChameleoniMix
START
CLAMP UP
TIME
DOWN
UP
STOP
WWW.CHAMELEON.IE
6. Stop / Reset button. Activating this button will stop a cycle and return the cradle to the upright position and open the clamp.
If activated in standby mode, it will detail the number of cycles the machine has completed.
2. Program selection
4. Increase and decrease cycle / time selection

Control Panel

1. START Button for starting the cycle

This button activates the process of tin agitation. As the cycle is progressing, the time frame set on the display starts to flash.

2. PROGRAM Button

The inverter parameters can be configured and modified through this push-button.

3. DISPLAY

This shows the mixing time, the selected rotation speed and also the fault messages in case of operating malfunction.

4. Set Time, "+" and "-" buttons

The required mixing cycle is set with the "+" and "-"buttons. The cycle setting must be between 1 and 9. To increase the time on the display, press the "+" button, to decrease the time setting press the "-"button. The number that appears on the display is the time that the mixer will mix for.

5. UNCLAMP Button (the arrow button, located to the right of the "start" button)

By pressing this button, the mixing arms can be disabled.

6. Stop / Reset

To stop the machine during cycle the Stop / Reset Button should be used to and not the Emergency Stop. Should the machine need to be brought to the zero position the stop reset button will perform this action.

7. Emergency Stop

In the event of an emergency the Emergency Stop button should be pressed to automatically stop the machine and cut the power off. The Emergency Stop Button should never be used to stop the machine in normal operating circumstances. If this button is used in and emergency then when reactivated, the stop /reset must be pressed to reset the machine for normal operation.

6.3 Switching on the machine

The machine is switched on by means of the following operational sequences:

1. Mains Power is turned On – located on the back right hand side of the machine
2. Door must be closed
3. Emergency Stop Switch is released
4. Check the display has been switched on and that no irregularities are shown
5. Place Can in machine and select Time
6. Press Start

6.4 Placing Containers Inside the Machine

The tin should be placed near the machine. For the movement of products in excess of 10 Kg, it is recommended that a suitable system of transport and handling be employed. Where possible, it is recommended that the lifting handles, provided on some kinds of containers, be removed, if this is not possible, elastic tape should be used to prevent the handles swinging during shake operation.

1. Open the door and extract the sliding tray using the retaining lever as depicted in Figure 3 below:

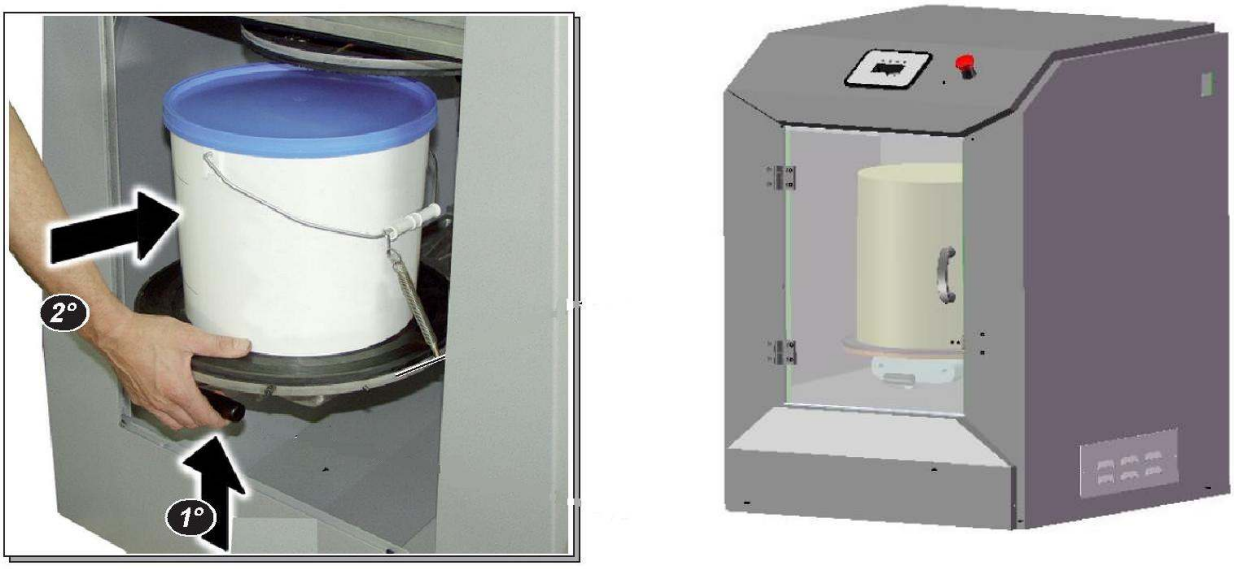


Figure 3: Sliding Tray

2. It is recommended that the arms be distanced so as to have a space of **at least 20 mm** from the top of the tin to the top plate. In opposite cases, where the tin is small and the arms are very far away, the machine will automatically bring the arms closer until clamping is effected

3. Place the can on the grooved loading plate, checking that the container is sufficiently concentric to the rotation axis of the plate itself: although extreme precision is not necessary, accurate centralization avoids the creation of vibrations. The concentric grooving of the rubber supports assists this operation.

4. Push the sliding tray with tin inside the machine until the retaining system locks. Close the door.

IT WILL NOT BE POSSIBLE TO CLOSE THE DOOR AND THUS TO START THE WORKING CYCLE UNTIL THE SLIDING TRAY IS CORRECTLY LOCKED

6.5 Program Selection

1. The rotation speed will be automatically selected based on the height and weight of the tin. Typically the speeds are based on the parameters below.
   With tin weight up to 7 Kg select: **HI**
   With tin weight over 7 and up to 24 Kg select **MID**
   With tin weight over 24 Kg select: **LOW**

FOR TINS WITH WEIGHT EXCEEDING 7 KG IT IS DANGEROUS TO RUN A WORKING CYCLE AT HIGH SPEED.

2. Press the **"START"** button to begin the working cycle as programmed.

Tin Unloading

On completion of the cycle the clamp arms will automatically separate. Open the door and extract the sliding tray as depicted in Figure 4 using the retaining lever. The machine is ready for running a new working cycle.

ENSURE THE INSTRUCTIONS (TIME AND ROTATION SPEED) PROVIDED BY THE PAINT AND VARNISH MANUFACTURERS ARE FOLLOWED.

Figure 4: Extracting the Sliding

6.6 Cleaning

- **DISCONNECT THE MACHINE FROM THE ELECTRICAL SUPPLY BEFORE CARRYING OUT ANY CLEANING OPERATION.**
- **USE INDIVIDUAL ITEMS OF PROTECTION DURING ALL CLEANING OPERATIONS.**
- **USE EXCLUSIVELY GREASE REMOVING PRODUCTS, WHICH ARE EMPLOYED IN NORMAL DOMESTIC USE.**
- **FOLLOW SCRUPULOUSLY THE INSTRUCTIONS PROVIDED BY THE MANUFACTURERS AS STATED ON THE ORIGINAL CONTAINER OF THE PRODUCT.**
- **NEVER CLEAN THE PERSPEX GLASS DOOR AND INSPECTION PANEL WITH TINNERS OR SOLVENT BASED CLEANING LIQUIDS.**
- **EXCESSIVE USE OF THE GREASE REMOVER CAN BE ENVIRONMENTALLY HARMFUL.**

Cleaning at regular intervals guarantees the safety of machine operations. Clean the machine carefully every week, removing dust, grime and foreign matter. To avoid damaging the display unit, it is recommended that this be cleaned exclusively with a damp cloth, avoiding the use of liquids or additives.

On completion of cleaning operations, the lubrication procedure is recommended (see Section 7. Maintenance Chart).

6.7 Switching off and protection

To protect the machinery it is recommended that oil, or equivalent protective substances be applied to the non-painted metallic parts of the gyroscope movement.
Close the door completely, wind the supply cable in a way that it will not become damaged, then locate the machine in an area away from frost, sources of heat, the possibility of any tampering with and from any improper use on the part of strangers or children. Use, wherever possible, the original packaging.

7.0 Maintenance

7.1 General

Prior to dispatch all equipment is tested and carefully checked by the Manufacturer. It is important to remember however, that the machine still requires ordinary attention to be paid, such as, for example, a systematic control of the safety systems, a lubrication of the mechanical moving parts etc.
Operations of checking and maintenance are necessary to maintain the technical conditions, the production and safety as envisaged by the manufacturer.

ONLY TRAINED PERSONNEL MUST BE REQUESTED TO PERFORM SUCH OPERATIONS.

7.2 Repairing

- Use only reliable and properly fitting tools.
- Only use CHAMELEON COLOUR SYSTEMS parts for replacements.
- Before the equipment is released for use following servicing, checks must be carried out to ensure that all the settings are correct and the control and safety systems are working properly.

7.3 Tightening of the Transmission Belts: (Quarterly)

Procedure

1. Disconnect the machine from the electrical supply.
2. Remove the machine from the wall by about **80 cm**
3. Remove the rear panel (10 self – tapping screws using Philips screwdriver).
4. Apply the **15 mm** spanner provided to the tensioning screw located on the slide into which the motors are fitted, until correct tension is obtained.
5. The trapezoidal belt controlled by the 0,18 KW motor (the small one on the left), reaches the ideal tension when an application on the centre line of the free track of a force of about one Kg produces approximately **20 mm** flexion as depicted in Fig 6.
6. Applying the same force to the "Poly V belt", this will reach correct tension when the flexion of the free track is about **10 mm** as depicted in Fig 6.
7. Reassemble the rear panel and reposition the machine, respecting the installation lay out.
8. Verify the proper machine functioning using 10 Kg tin.

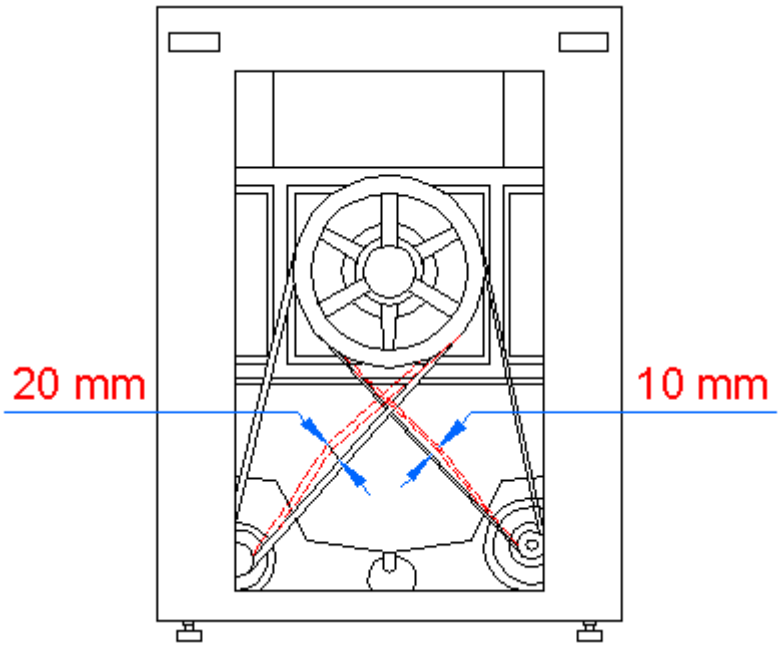


Figure 6: Tensioning of Belts

7.4 Cleaning and Lubrication of the Clamp: (Weekly)

Procedure

1. Disconnect the machine from the electrical supply.
2. Extract the sliding tray then proceed to clean the cylindrical guides with subsequent lubrication with a modest quantity of mineral lubrication oil.
3. Remove the clamping arms.
4. Clean the running guides of the arms removing soil and residual used oil; apply a modest quantity of grease of both sides of the guide.
5. Bring the clamping arms together.
6. Proceed to clean and lubricate as described in point 4 the remaining parts of the guide.

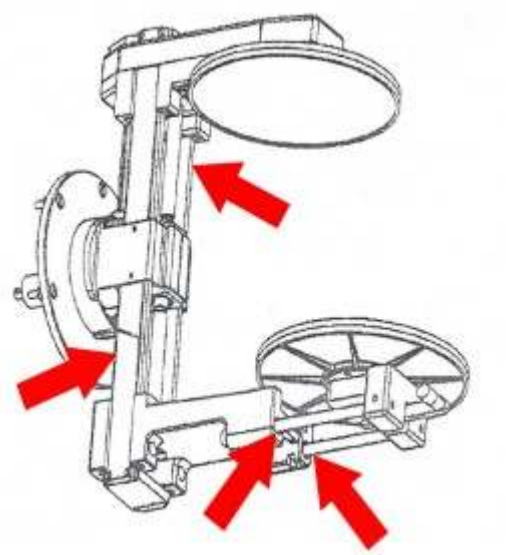


Figure 7: Cleaning and Lubrication of Clamp

Note: If the Lead Screws get contaminated with paint, this may prevent the clamping system from clamping the can correctly

8.0 REGISTRATION OF OWNERSHIP - WARRANTY CARD

Warranty card must be returned within 21 days of purchase. Warranty does not take effect until this card is received by CHAMELEON COLOUR SYSTEMS LTD.

<u>Do not</u> sign this warranty card until you have read and understood the instructions concerning the operation, limits of use and safety features of your new machine.

Your signature indicates your compliance with this obligation.

Owners Name: _____

Address: _____

Telephone/Fax No: _____

Make and Model of Machine: _____

_____

Location of Machine: _____

Serial Number: _____

Date of Purchase: _____

Signature: _____ | _____

Owner/ Manager **Installer**

Please return this card to:
CHAMELEON COLOUR SYSTEMS LTD.
BUSINESS PARK
WEIR ROAD
TUAM CO. GALWAY
IRELAND
TEL.: +353 93 25392
FAX. +353 93 25394
E-Mail: sales@chameleon.ie

9.0 WARRANTY & CLAIM PROCEDURE

Chameleon Colour Systems warrants its equipment to be free of defects in materials and workmanship, to the original user, for a period of one year from date of purchase. The Registration of Ownership – Warranty Card must be completed and returned to Chameleon Colour Systems within 21 days of purchase.

Chameleon Colour System's warranty covers replacement of parts only and covers full repairs when carried out at the Chameleon premises.

The warranty is applicable to the original owner only and is non-transferable. The equipment must be used, operated and maintained in accordance with all instructions, precautions and warnings contained in the user manual. For the purpose of this warranty, damage caused by accident, abuse, modification, improper cleaning or lack thereof, or improper operation, is not covered. Cleaning and general maintenance is the responsibility of the owner/operator and is not covered by the warranty.

Chameleon Colour System's liability is limited to the replacement of parts found to be defective and does not include damage or any other expenses of any kind incurred in connection with the purchase and use of the equipment.

All parts required for warranty service are invoiced to the client with payment due under our standard credit terms. Where warranty is approved, we will issue a credit for the full value of the replacement parts invoiced less transport charges unless otherwise agreed.

A valid claim lists model number, serial number, date of installation and lists all parts used.

Major parts replacement may require the return of the defective parts. If uncertain, call for further instructions. All returns must be authorised and no return will be accepted without prior notification.

Signed by:

_____

Customer Authorised Signature & Date

INSTALLERS CHECKLIST. [Read owners manual first.]

NO	DESCRIPTION.	CHECKED.
1.	Remove all packaging from machine.	
2.	Check machine is level on floor.	
3.	Check for correct power source.	

Instruct Users on Do's and Don'ts and proper use

1.	Do not use The Emergency Stop Switch as an On / Off Switch.	
2.	Never attempt to open the door during the shake cycle Wait until the shaker has come to a complete stand still.	
3.	DO NOT USE EXTENSION CORDS AND ALWAYS DISCONNECT THE ELECTRIC PLUG When cleaning or doing maintenance work	
4.	Instruct end user on safety features of mixer. .	
5.	Check maintenance procedure with end user.	
6.	Check Trouble shooting with end user.	
7.	Complete and return warranty card. .	

Signature of Installer: _____

Date: _____

EC-Declaration of Conformity

We,

Chameleon Colour Systems,
Weir Road,
Tuam,
Co. Galway,
Ireland.

declare that:

Name:	**iMix**
Description:	**Paint Mixer**
Purpose:	**Of mixing paints and varnishes non-flammable, contained in metal or plastic tins of dimensions and weights as indicated in the technical specifications.**

are in compliance with the following directives:

Electromagnetic Compatibility Directive 89/336/EEC
61000-6-3:1998 + A1:2000 to 61000-6-3:1998+A2002 to 61000-6-3:1998
EN61000-6-2:1998 +A1:2001 to EN61000-6-2:1998+A2:2003 to EN61000-6-2:1998
EN61000-6-2:1998
EN61000-3-2:2000
EN61000-3-3:1995 + A1:2001 to EN61000-3-3:1995
Equipment classification: Residential and Industrial

Machinery Directive 2006/42/EC
Low Voltage Directive 73/23/EEC

According to the harmonized standards:
EN60204- 1, EN1088, BS EN 418:1992 & EN1050, EN 12100-1, EN 12100-2

Mr. Padraic Timon
Managing Director

NOTE: The declaration of conformity will lose its validity if any changes or modifications are made to the machine without the manufacturer's approval.

Certificate of Registration of Quality System to

I.S. EN ISO 9001:2008

EQA (Ireland) Limited certifies that

Chameleon Colour Systems Ltd

Business Park
Weir Road
Tuam
Co. Galway

has been assessed and is in compliance with the provisions of the above standard in respect of the scope of operations listed below and is hereby included in the EQA directory of certificated organisations.

Manufacturer of Paint Mixing, Tinting and Dispensing Machines

Signed ..... DIRECTOR DATE: **13th October 2011**

on behalf of **EQA (Ireland) Limited**

This Certificate of Registration Number **237** was first issued on **14th August 1996**

is valid until 13th August 2014

and is issued subject to the regulations, and within the accredited scope, of

EQA(Ireland) Limited
15 Greenmount Office Park,
Harolds Cross,
Dublin 6w,
Ireland.

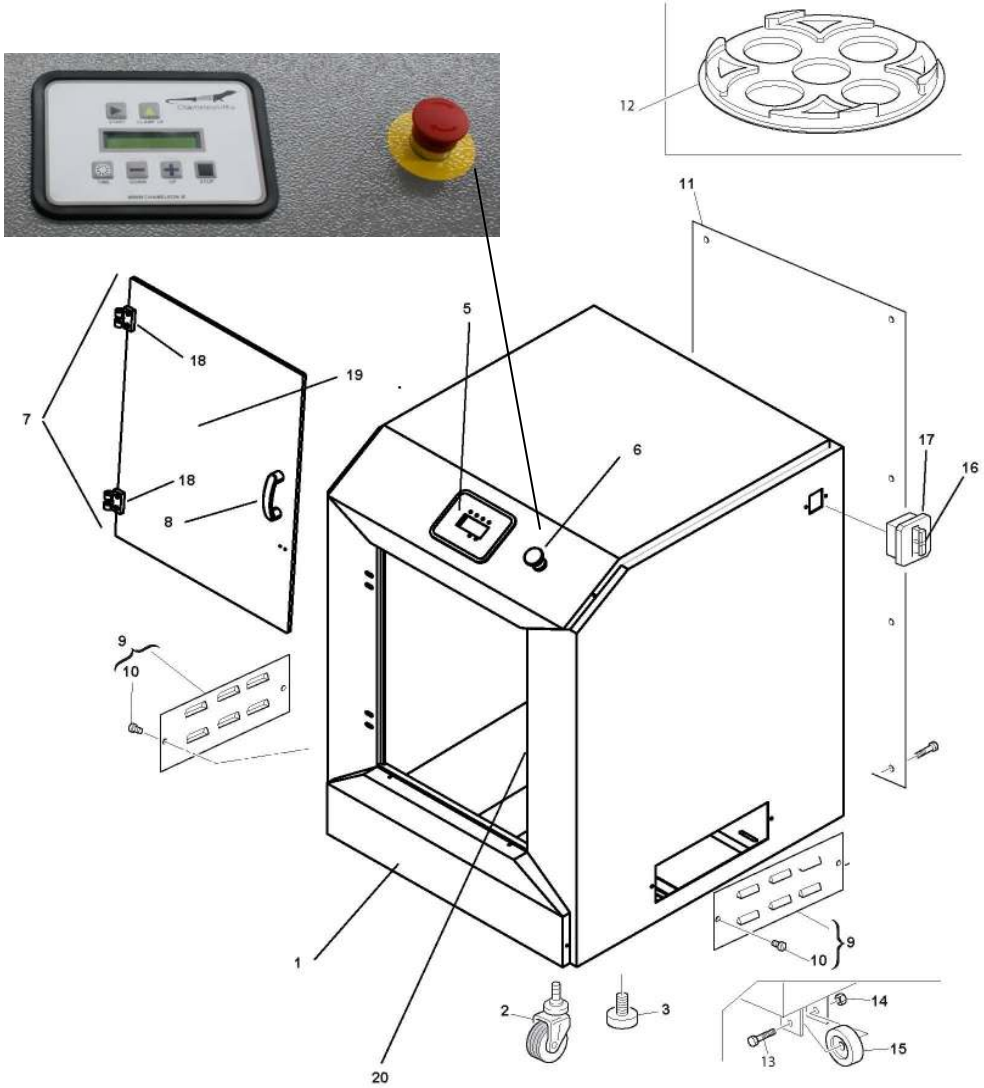
ISO 17021 INAB ACCREDITED MANAGEMENT SYSTEM CERTIFICATION DETAILED IN SCOPE REG NO.5005

APPENDIX I
iMix
Gyroscopic
Paint
Mixer

SPARE PARTS GUIDE

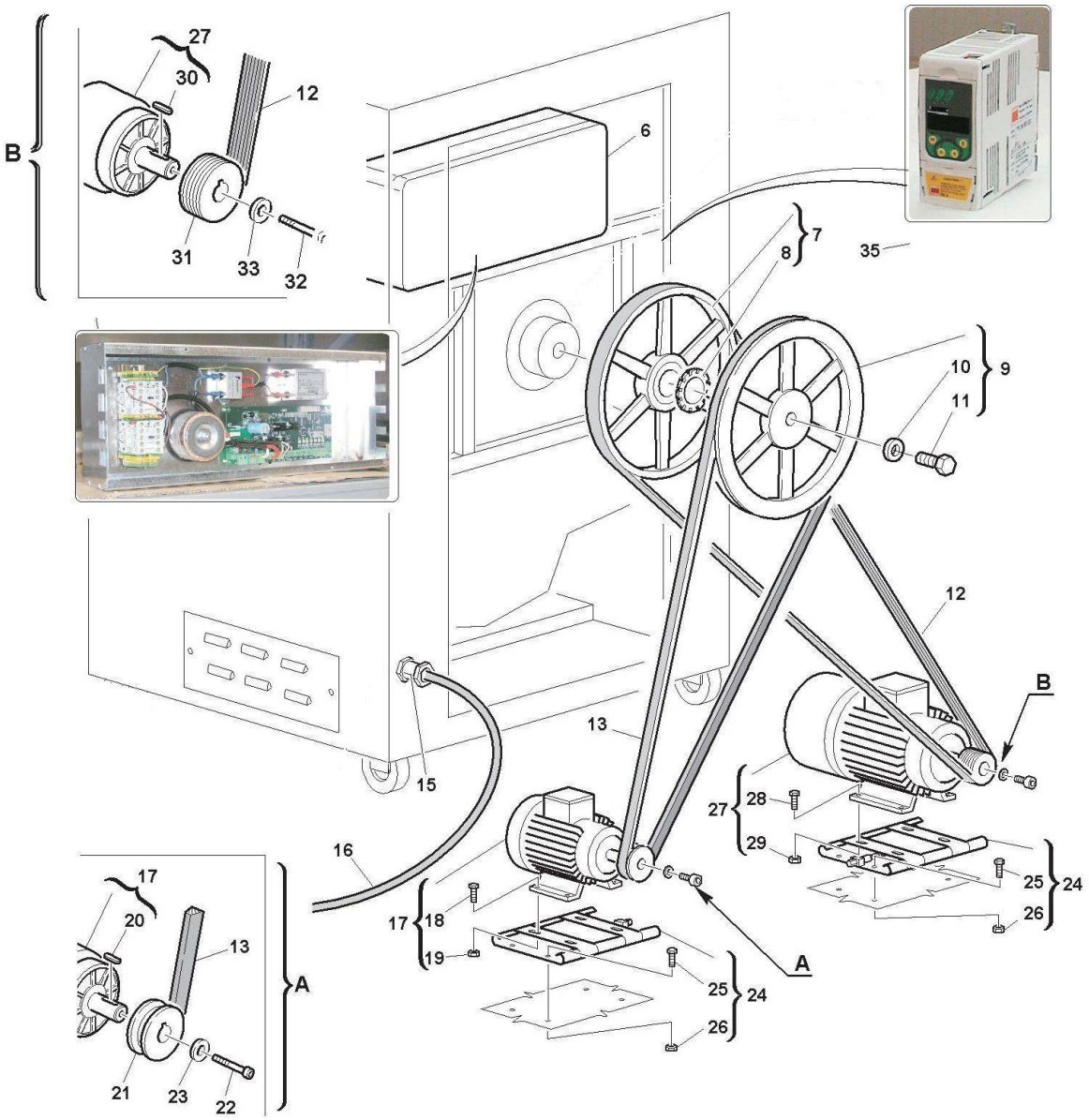
Chameleon Colour Systems Limited,
Business Park, Weir Road, Tuam, Co. Galway, Ireland.
E-mail : sales@chameleon.ie Website : www.chameleon.ie
Tel: Int + 353 93 25392 Fax: Int + 353 93 25394
Registered in Ireland No. 187752
V.A.T. Number: IE 6587752F

ACCESS PANEL / OUTER STRUCTURE



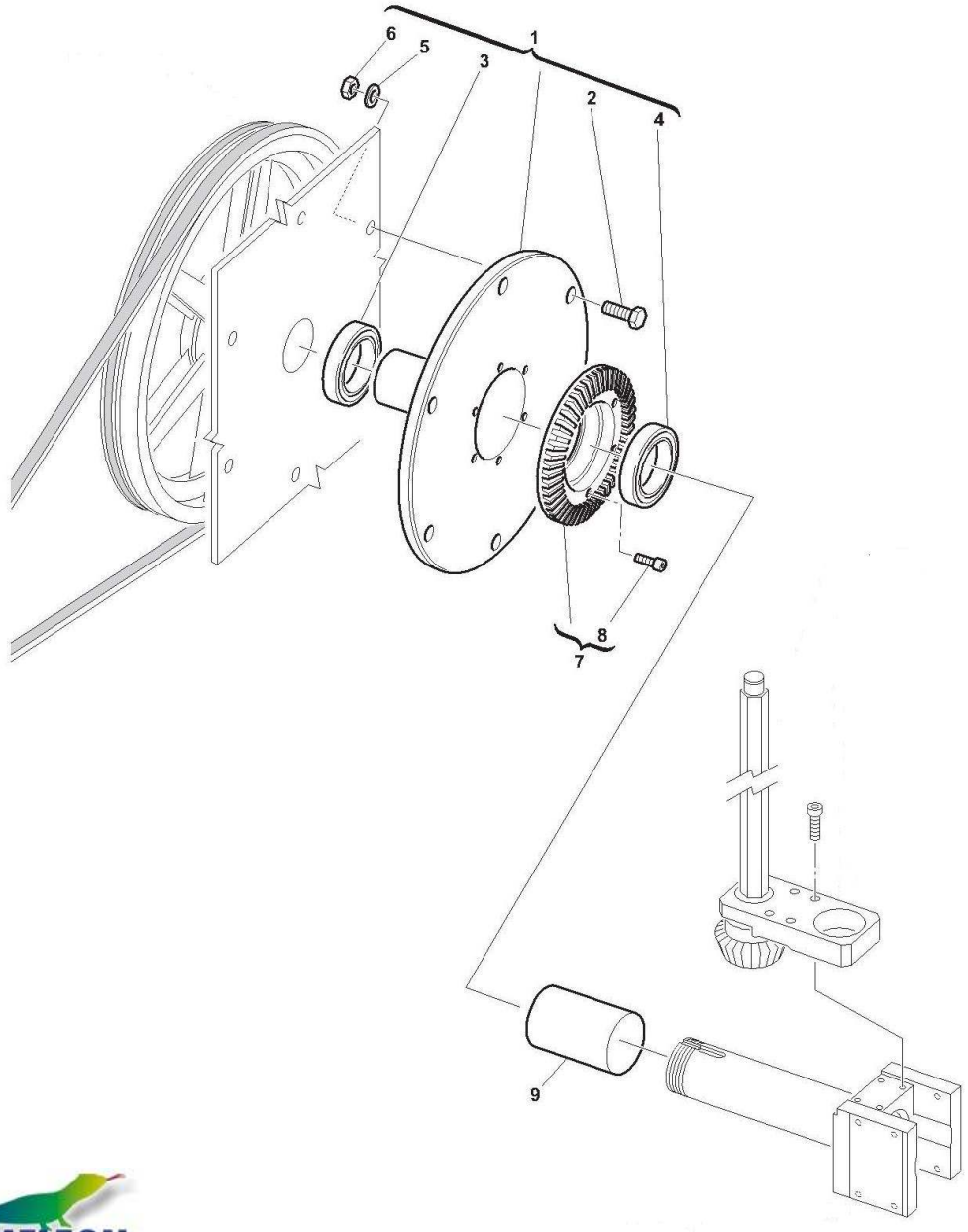
ITEM	PART NO	DESCRIPTION
1	101.01.335	Machine structure
2	101.01.224	Castor wheel
3	101.01.236	Adjustable feet
4	--	Cover
5	101.06.109	Control panel
6	101.06.056	Assembled mushroom shaped emergency red button
7	101.01.344	Assembly door
8	101.01.162	Handle
9	101.01.233	Grid
10	--	Screw
11	101.01.163	Rear panel
12	101.01.156	Container adapter
13	--	Fixed wheel pin
14	--	Fixed wheel hex nut
15	101.01.224/1	Fixed wheel
16	101.06.002	Power switch
17	101.06.003	Flange power switch
18	101.01.165	Hinge
19	101.01.336	Perspex panel
20	101.06.107	Breaker

GEAR DRIVE AND POWER SUPPLY



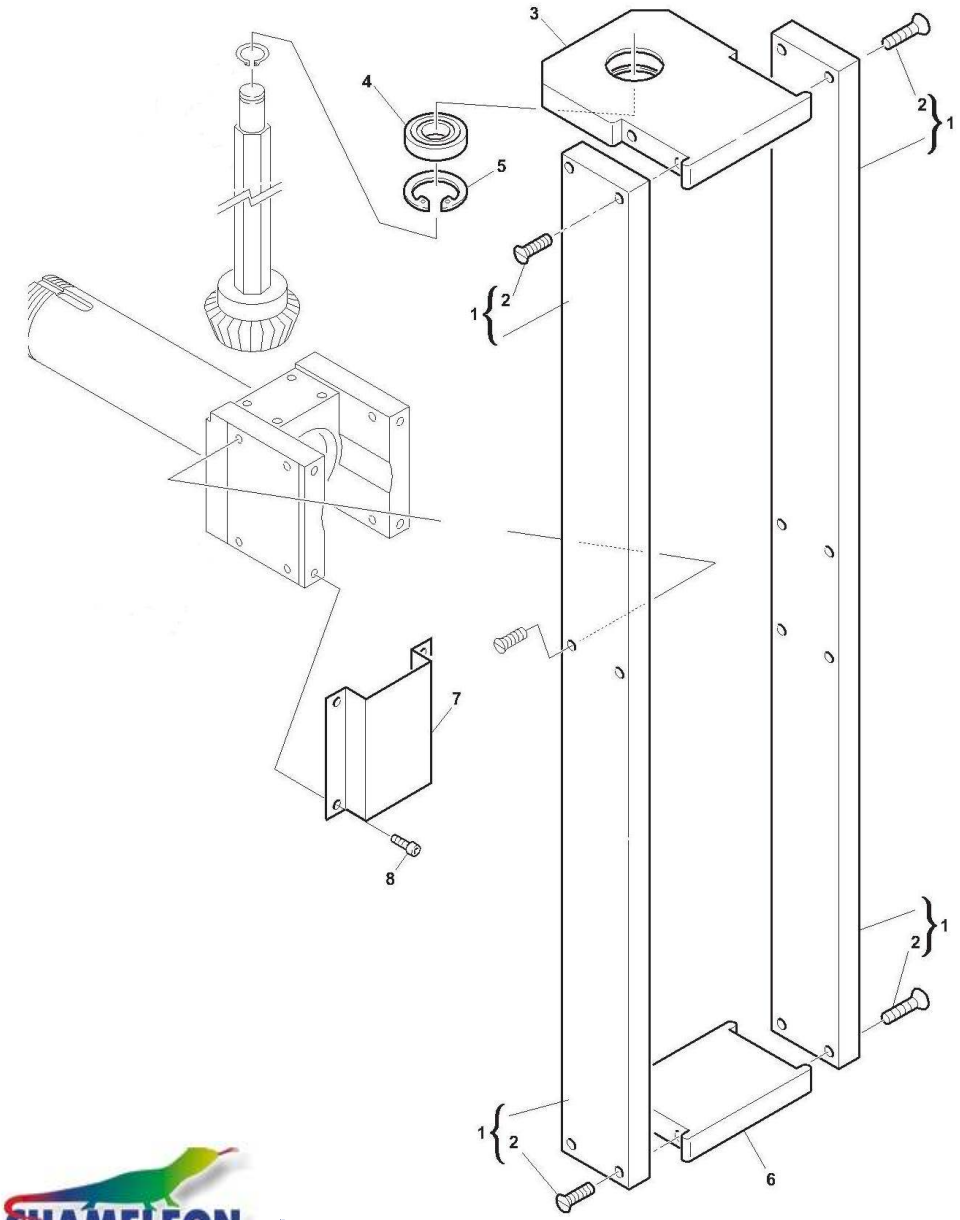
ITEM	PART NO	DESCRIPTION
6	101.01.562	Electrical service box
7	101.01.118	12-groove V-belt pulley
8	--	Safety washer
9	101.01.119	V-belt pulley
10	101.01.138	Washer
11	--	Screw
12	101.01.229	PolyV. belt
13	101.01.230	V-belt type 13x1650 A-65
15	101.06.022	Core hitch P G13
16	101.06.037	Power flex
17	101.01.182	0.18 kW motor
18	--	Screw
19	--	Nut
20	--	Key supplied with motor
21	101.01.124	V-pulley
22	--	Screw
23	101.01.138	Washer for 0.18 kW motor
24	101.01.292	Complete motor support
25	--	Screw
26	--	Nut
27	101.01.213	0.9 kW 220V motor
28	--	Screw
29	--	Nut
30	--	Key supplied with motor
31	101.01.650	Poly pinion
32	--	Screw
33	101.01.138	Washer
34	101.03.137	Complete electric group
35	101.06.100	Inverter

CENTRAL FLANGE ASSEMBLY



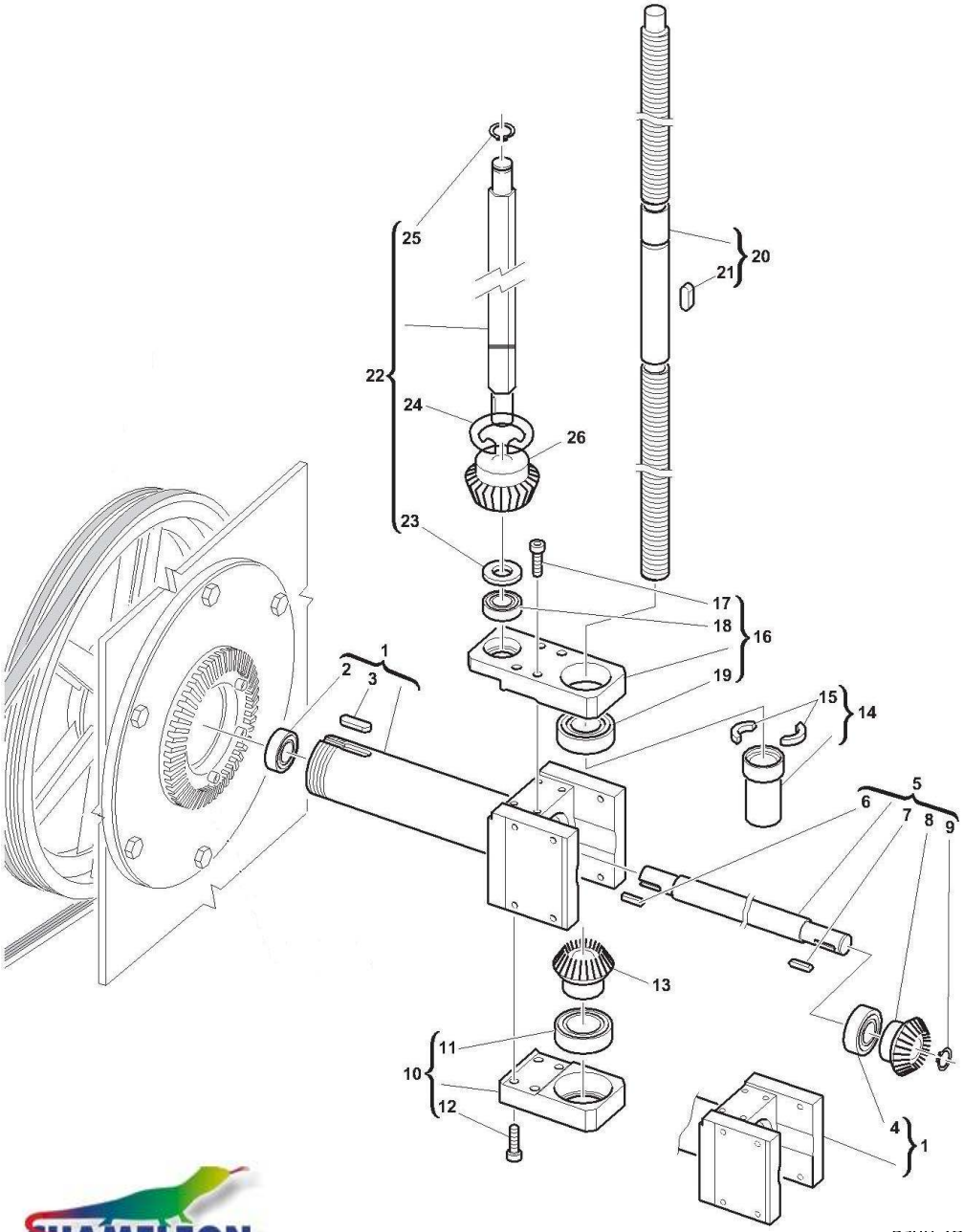
ITEM	PART NO	DESCRIPTION
1	101.01.111-A	Central flange
2	--	Screw
3	101.01.242	6009 2RS bearing
4	101.01.242	6009 2RS bearing
5	--	Washer
6	--	Self-locking nut
7	101.01.154	M3 ring and pinion (plastic gear)
8	--	Screw
9	101.01.139	Spacer

SLIDING GUIDE RAILS



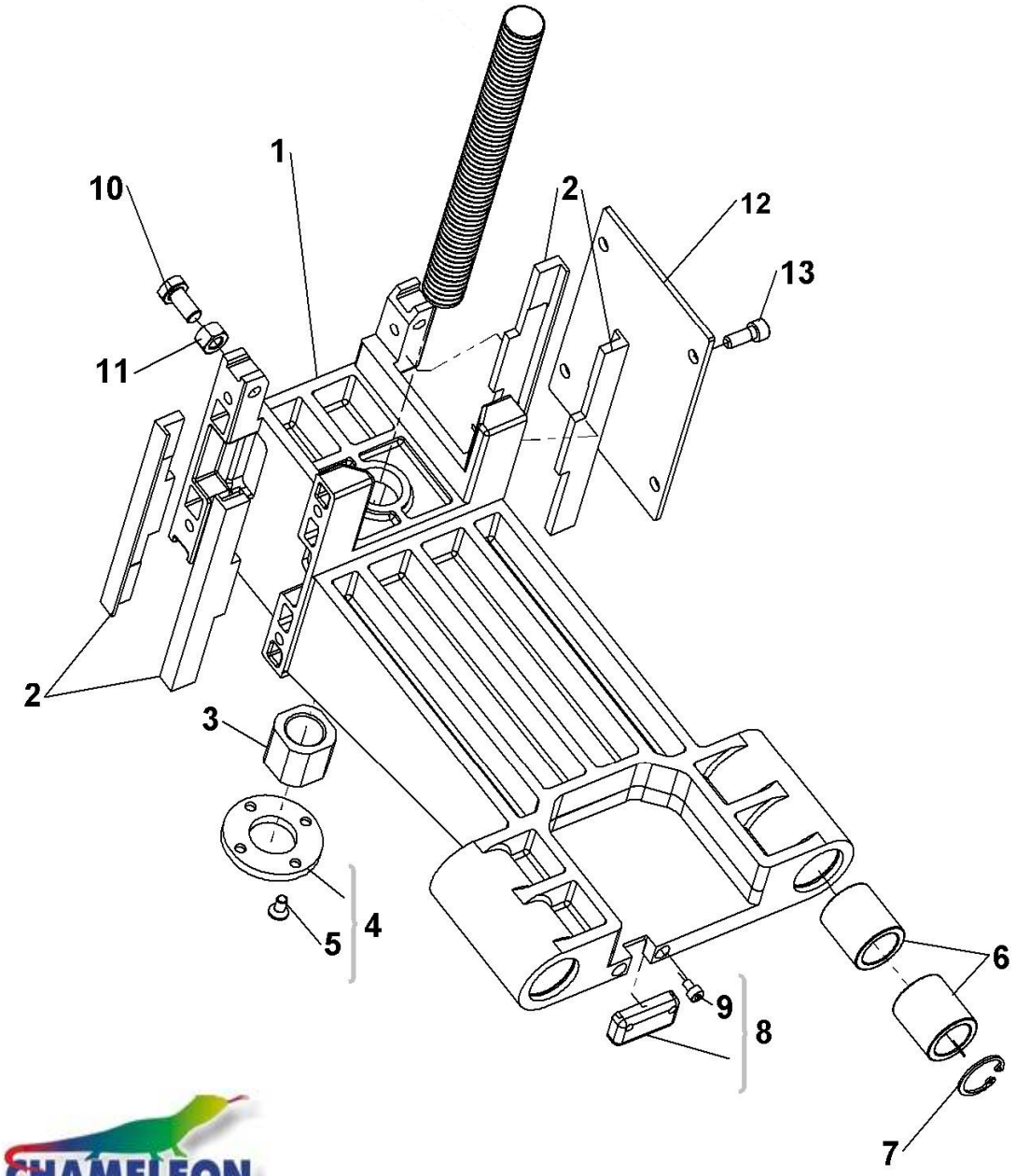
ITEM	PART NO	DESCRIPTION
1	101.01.652	Sliding guides
2	--	Screw
3	101.01.621	Upper limit switch
4	101.01.238	Bearing 6002 2RS
5	--	Seeger ring
6	101.01.644	Lower limit switch
7	101.01.538	Cone-shaped torque protection
8	--	Screw

DRIVE SHAFT ASSEMBLY



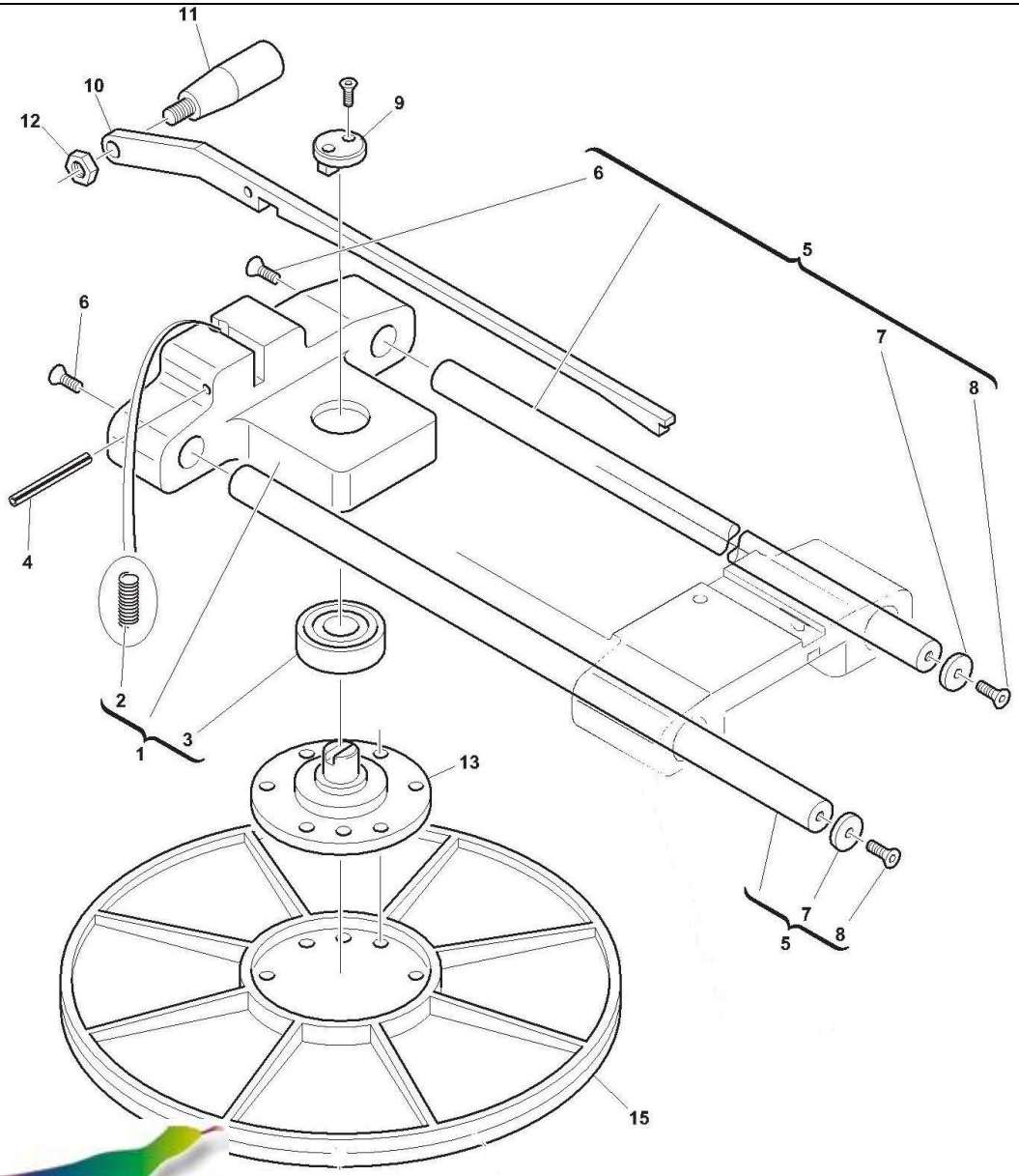
ITEM	PART NO	DESCRIPTION
1	101.01.558	Central shaft
2	101.01.237	6001 2RS bearing
3	--	Key
4	101.01.239	6202 2RS bearing
5	101.01.559	Arm opening shaft
6	--	Key
7	--	Key
8	101.01.152-A	Bevel gear Z 30 M1,5 ø15
9	--	Seeger ring
10	101.01.127-A	Lower support
11	101.01.240	6004 2RS bearing
12	--	Screw
13	101.01.151-A	Bevel gear Z 30 M1,5 ø20
14	101.01.137	Lead screw spacer
15	101.01.136	Half-moon clamp
16	101.01.126-A	Upper support
17	--	Screw
18	101.01.237	6001 2RS bearing
19	101.01.240	6004 2RS bearing
20	101.02.148A	Lead screw
21	--	Key
22	101.01.623	Drive shaft
23	101.01.135	Hexagonal grooved shaft spacer
24	--	Seeger ring
25	--	Seeger ring
26	101.01.153 FE	Z16 M3 bevel pinion

LOWER ARM



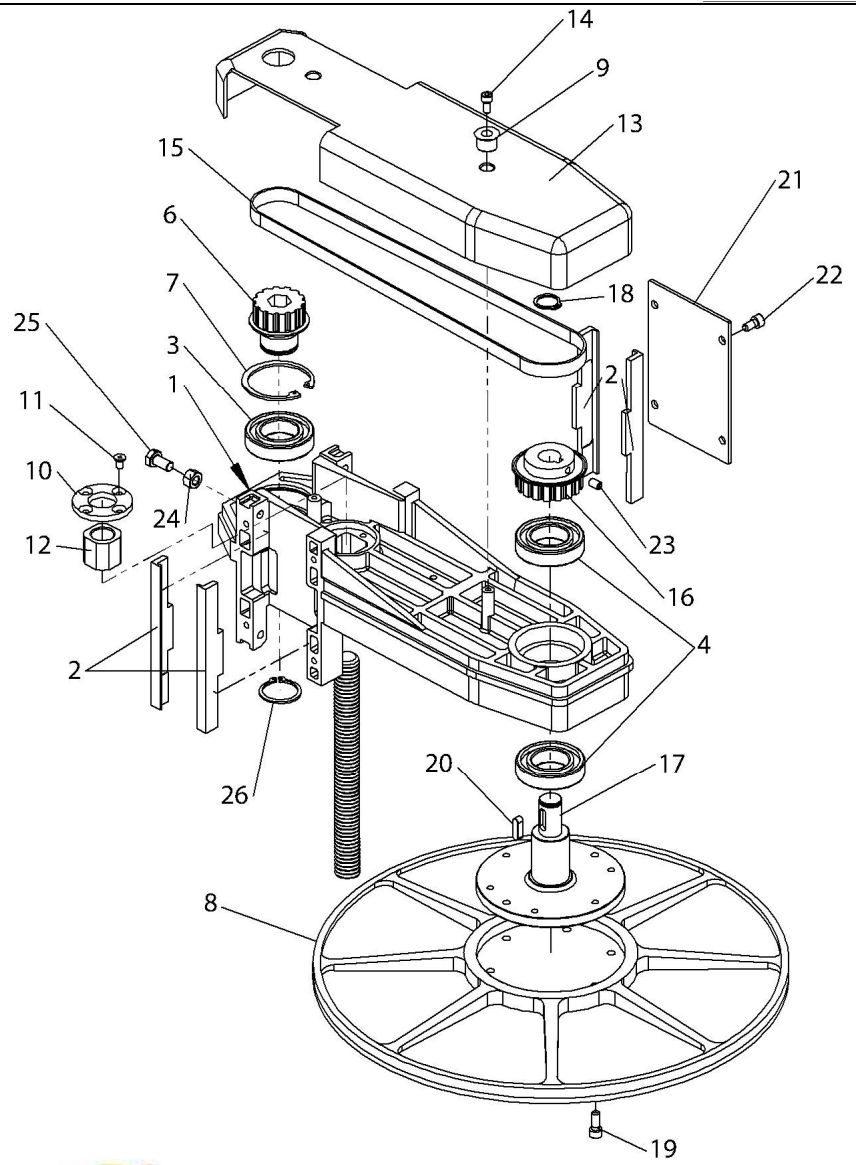
ITEM	PART NO	DESCRIPTION
1	101.01.540	Lower arm
2	101.01.611	Guide
3	101.01.143	left nut
4	101.01.141	Nut retainer
5	--	Screw
6	101.01.244	Ball coupling box
7	--	Seeger ring
8	101.01.274 FE	Stop
9	--	Screw
10	--	Screw
11	--	Nut
12	101.01.564	Side plate
13	--	Screw

MOVING CARRIAGE



ITEM	PART NO	DESCRIPTION
1	101.01.114-B	Moving carriage
2	101.01.171	Lever return spring
3	101.01.507	3205 A 2 RS bearing
4	--	Spring pin
5	101.01.145	Moving carriage guides
6	--	Screw
7	101.01.138	Carriage retaining washer
8	--	Screw
9	101.01.526	Bearing disc
10	101.01.155	Stop ring hook
11	101.01.216	Handle
12	--	Nut
13	101.01.525	Idle table shaft
14	--	Screw
15	101.01.556	Scored vulcanized control table

UPPER ARM



ITEM	PART NO	DESCRIPTION
1	10.101.539	Upper arm
2	101.01.611	Guides
3	101.01.241	2RS 6006 2RS guides
4	101.01.241	2RS 6006 2RS guides
5		
6	101.01.719	Pinion drive
7	--	Seeger Ring
8	101.01.561	Vulcanized control table
9	101.01.170	Pin
10	101.01.141	Nut retainer
11	--	Screw
12	101.01.144	Right nut
13	101.01.612	Upper casing
14	--	Screw
15	101.01.296	Toothed belt HTD 8008MBH20
16	101.01.718	Timing pulley
17	101.01.557	Control table shaft
18	--	Seeger Ring
19	--	Screw
20	--	Key
21	101.01.564	Side plate
22	--	Screw
23	--	Screw
24	--	Nut
25	--	Screw
26	--	Seeger Ring